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Theoretical Computer Science 345 (2005) 1

Theoretical
Computer Sciencewww.elsevier.com/locate/tcs

Preface

Special issue

The Tenth International Conference on *Tools and Algorithms for the Construction and Analysis of Systems (TACAS) 2004*, took place in Barcelona, Spain, March 27–April 4, 2004. TACAS is an event of the *Joint European Conferences on Theory and Practice of Software (ETAPS)*.

TACAS presents original papers on foundational and applied research with a clear significance to the development of tools to increase the productivity in building computer systems. The majority of the contributions were focused on verification and analysis of programs and software systems. The Programme Committee invited papers on the following topics, in particular: specification and verification techniques, theorem proving and model checking, system construction and transformation techniques, static and run-time analysis, compositional and refinement-based methodologies, testing and test-case generation, analytical techniques for real-time, hybrid and safety-critical systems, tool environments and tool architectures, applications and case studies. The conference proceedings contains 37 research papers and 6 tool papers selected for publication by the Programme Committee; 145 research papers and 17 tool papers had been submitted. The members of the Programme Committee were: Jonathan Billington, Bernard Boigelot, Ed Brinksma, Witold Charatonik, Rance Cleaveland, Giorgio Delzanno, David L. Dill, Susanna Donatelli, Javier Esparza, John Hatcliff, Kurt Jensen, Orna Kupferman, Yassine Lakhnech, Kim Larsen, Anca Muscholl, Anna Philippou, Andreas Podelski, Jaco van de Pol, Jakob Rehof, Martin C. Rinard, Bill Roscoe, Bernard Steffen, Ofer Strichman, Antti Valmari. The proceedings itself appears as volume 2988 of *Lecture Notes in Computer Science*, Springer, 2004.

This special issue of *Theoretical Computer Science* contains seven extended journal versions of 7 papers drawn from the conference proceedings. Each of the submissions received for the special issue has been reviewed to journal standard. We thank all the reviewers for the efforts to assess and suggest improvements to the articles.

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